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a first-color filter positioned between the scene and the first-color region of the imaging detector,

a first-color optical train that focuses first-color scene energy onto the first-color region of the imaging detector, wherein the first-color scene energy from the first-color optical train is mapped nonlinearly onto the first-color region of the imaging detector, and

a first-color optical fiber bundle having a first-color input end that receives the first-color scene energy from the first-color optical train and a first-color output end that directs the first-color scene energy onto the first-color region of the imaging detector, the first-color optical fiber bundle comprising a plurality of first-color optical fibers wherein each of the first-color optical fibers has a first-color fiber input shape and size at its first-color input end and a first-color output shape and size at its first-color output end, the first-color output shape and size being different from the first-color input shape and size; and

a second-color imaging system comprising:

a second-color filter positioned between the scene and the second-color region of the imaging detector,

a second-color optical train that focuses second-color scene energy onto the second-color region of the imaging detector, and

a second-color optical fiber bundle having a second-color input end that receives the second-color scene energy from the second-color optical train and a second-color output end that directs the second-color scene energy onto the second-color region of the imaging detector, the second-color optical fiber bundle comprising a plurality of second-color optical fibers wherein each of the second-color optical fibers has a second-color fiber input shape and size at its second-color input end and a second-color output shape and size at its second-color output end, the second-color output shape and size being different from the second-color input shape and size.